

Title (en)
Under floor heating

Title (de)
Fussbodenheizung

Title (fr)
Chauffage par le sol

Publication
EP 1219905 A3 20030507 (DE)

Application
EP 01130382 A 20011220

Priority
DE 20021614 U 20001221

Abstract (en)
[origin: EP1219905A2] The floor heater comprises two parallel running heating pipes (12, 14) on a carrier mat (10) that flows in counter-stream to a heating medium. The carrier mat is a copper-wire mat. The heating pipes may be flexible copper pipes, whilst the heating pipes may be weaved in the carrier mat. The carrier mat may have, at its edge, a connection region (16) from which both ends of both heating pipes protrude. The outward ends of the heating pipes may fit into an in-wall casing (20) in which the provision (22) of a heating unit on the feed-ends of the heating pipes is branched and also the return ends of the heating pipes being sealed with a combination valve (32) that functions as a return temperature limiter and a room thermostat valve. The heating pipes may be connected with the provision and the combination valve via mount couplings (24, 26, 28, 30).

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F24D 3/14

IPC 8 full level
F24D 3/14 (2006.01); **F28F 9/013** (2006.01)

CPC (source: EP)
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Citation (search report)

- [YD] EP 0816764 A2 19980107 - JOLLY JUERGEN [DE]
- [Y] FR 2400178 A1 19790309 - MARTEL CATALA & CIE ETS [FR]
- [Y] DE 19838511 A1 19990318 - U S H FITTINGS & KUNSTSTOFFTEI [DE]
- [A] FR 2137335 A1 19721229 - ELYN AUGUSTE
- [A] FR 2428224 A2 19800104 - MARTEL CATALA & CIE ETS [FR]
- [A] EP 0445391 A1 19910911 - KABELMETAL AG [DE]
- [A] DE 2602272 A1 19770804 - SCHAEFER RAINER

Cited by
DE102010034147A1; CN105444245A; FR2993041A1; FR2858047A1; EP3205945A1; WO2004088214A1; EP2950008B1

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